

1 AMMENDMENTS TO ABSTRACT

2 No amendments to the abstract are submitted herein.

3  
4 REMARKS, General

5 (Para. 1) Referring to the above amended claims, the applicants believe theirs  
6 are patentably distinguished from previous technologies as put forth in the  
7 following paragraphs.

8  
9 (Para. 2) Applicants request cancellation of claims 5, 6, 13, 14, and 29 solely for  
10 the purpose of preventing increased total number of claims resulting from  
11 addition of claims 37, 38, 39, 40 and 41.

12  
13 (Para. 3) In respectful response to examiner' paragraph 6, and referring to the  
14 (now amended) claims (for which rejection was previously proposed), 1, 3-4, 6-7,  
15 12, 14-15, 18, 20-21, 26-31, 33 and 35, above, the applicants respectfully assert  
16 that their instant application is not anticipated by the previous Richter patent (US  
17 6,715,213 B2) because the previous Richter patent requires gyroscopes, while  
18 the instant Richter application uses gravity-sensing tilt-sensors, only. In order to  
19 clarify this, the above amended claims eliminate any reference to  
20 accelerometers, thereby removing grounds for the examiner's expressed concern  
21 respecting overlap of the terms "gyroscope" and "gravity-sensing-tilt-sensor."

22  
23 (Para. 4) Since the preceding Richter patent required one or more gyroscope(s)  
24 for reference, but, in contrast, the instant application makes use of no gyroscopic  
25 devices at all, instead using only gravity-sensing tilt-sensors, the technologies of  
26 the two patent applications distinctly differ.

27  
28 (Para. 5) In greater explanation, a gyroscope is not a gravity-sensing tilt-sensor.  
29 A gyroscope is, in fact, wholly independent of gravitational forces or linear "g"  
30 forces. It senses nothing except its own inertial *centripetal* forces. Therein lies  
31 its peculiar value.

32  
33 (Para. 6) An example of the difference and the use to which it is placed may be  
34 found on almost any aircraft instrument panel. There, we find a "ball and needle"  
35 turn coordinator wherein the "needle" provides a gyroscopic reference and the  
36 "ball" provides a gravity-sensing or inertial reference. The "needle" senses rate-  
37 of-turn. The "ball" senses-angle-of-bank with reference to gravity or "g" forces.  
38 The ball and needle are wholly independent and, because of their different  
39 natures, display, to the uninitiated, contradictory information.

40  
41 (Para. 7) Another illustrative device on the aircraft panel is the attitude-indicator.  
42 This device is wholly gyroscopic and uninfluenced by gravity or inertia. In  
43 contrast, another example is the "g" meter which is wholly subject to gravitational  
44 and/or inertial forces and knows nothing of the broader spacial orientation  
45 revealed by the gyroscopic attitude-indicator.

46  
47 (Para. 8) Although a gyroscope may appear to be set to indicate "up", "down",  
48 North or South, it, in fact, senses nothing of such orientation. This fact is